**Math 9 Review A for June Exam Semester 2**

1. Which is the solution for the equation -16 = x + 4

a) -20 b) -12 c) -4 d) -8

1. Which equation has the solution p = 7?

a) 5p + 6 = -29 b) 7p + 1 = 49 c) -6p + 8 = -34 d) 

1. Which equation does not have the same solution as the others?

a)  b)  c) 3(r + 4) = 24 d) 5r – 6 = 19

1. Solve: 1.2b + 2.b6 = 10.1 – 1.3b

a) b = 0.3 b) b = 3 c) b = -3 d) b = -0.3

1. Solve: 

a) x = -4 b) x = -60 c) x = -8 d) x = -15

1. For which value of t does 4.5 + t = -9.7?

a) 5.2 b) -5.2 c) -14.2 d) 14.2

1. If 4(y + 7) = -8, which is the value of y + (-6)?

a) -9 b) -15 c) -11 d) -5

1. If , which is the value of x?

a) -1 b) -2 c) -3 d) -4

1. Which equation has the correct solution given?

a)  b) -4b + 2 = -10 c) 2c – 6 = -12 d) 2(d – 4) = -10

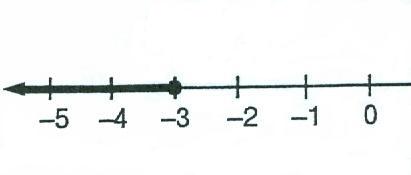
a = -10 b = 2 c = -3 d = 1

1. Solve. 6n – 3 < 21

a) n < 3 b) n > 4 c) n < 4 d) n > 3

1. If -3n + 2 ≤ 8, which shows the value of n?

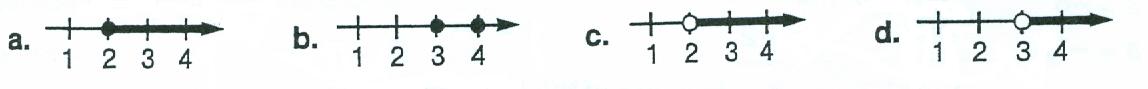
a) n ≥ 2 b) n ≤ 2 c) n ≤ -2 d) n ≥ -2

1. Which inequation represents the graph?

a) n < - 3 b) n ≤ - 3

c) n > - 3 d) n ≥ - 3

1. Which graph shows the solution for the problem 7n + 2 ≥ 16?



14. Solve for x and express your answer in set notation:

2(x + 8) > 4(3 + x)

a) x<2 b) x<4 c) x>2 d) x>4

15. Solve for the unknown variable:

9m – 3  3(m – 4)

a) m ≤  b) m ≥  c) m ≥  d) m ≤ 

16. Solve for the unknown variable:



a) x ≤  b) x ≥  c) x ≥ 2 d) x ≤ 2

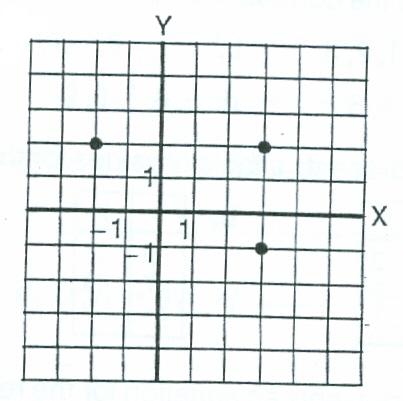
1. An equipment rental company charges a flat rate of $24, plus $14 per day for insurance. Kyle has $155. Write an inequality to represent the number of days, *d*, for which he can rent equipment.
2. 
3. 
4. 
5. 
6. When 13 is subtracted from the product of a number and 5, the result is 27. Find the number.
7. The length of a rectangular swimming pool is 16 m greater than its width. The perimeter of the pool is 120 m. What is the length of the pool?
8. Jake is thinking of a number. If you divide his number by 4, then subtract 12, the result is -3. What is Jake’s number?
9. Which ordered pair belongs to the relation y = -2x + 5?

a) (2,1) b) (2,-9) c) (2,-1) d) (2,9)

|  |  |
| --- | --- |
| **x** | **Y** |
| 1 | 7 |
| 2 | 12 |
| 0 | 2 |
| 3 | 17 |

1. Which is the rule for the relation shown by the table of values?

a) y = 5x + 2 b) y = x + 6 c) y = 4x + 5 d) y = x + 2

1. The coordinates of three vertices of a rectangle are shown. What are the coordinates of the fourth vertex?

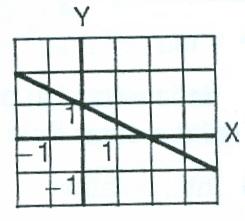
a) (2,1) b) (2,-1) c) (-2,1) d) (-2,-1)

1. Which ordered pair does not belong to the relation y = x – 1?

a) (0,-1) b) (0,1) c) (1,0) d) (2,1)

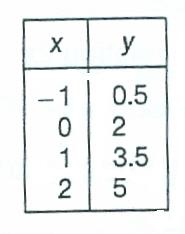
1. In the relation y = , x can have values – 6, -3, 0, 3, 6. Which are the corresponding values of y?

a) -1,0,1,2,3 b) -5,-6,-7,-8,-9 c) 1,2,3,4,5 d) 5,6,7,8,9



1. Which represents an equation for the relation?

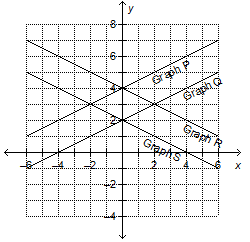
a) y = x – 2 b) y = 2x + 1 c) y =  d) y = -x + 1



1. Which represents an equation for the relation?

a) y = x + 2 b) y = x + 

c) y = 2x + 1.5 d) y = 



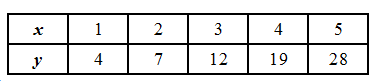
1. Which graph on this grid has the equation x + 2y = 4?

a) Graph Q b) Graph P

c) Graph S d) Graph R

1. “When 3 is added to twice the x value, the result is the same as the y value.” Which equation shows this relation?

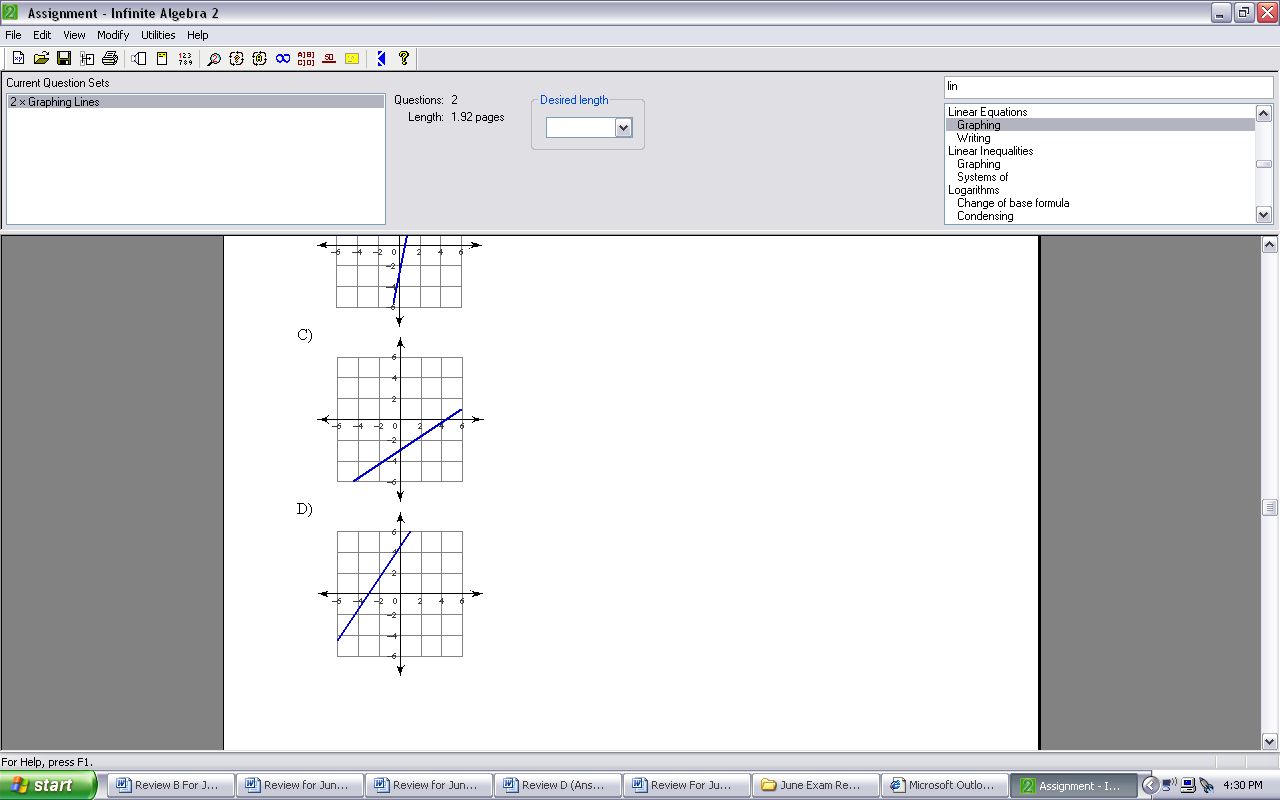
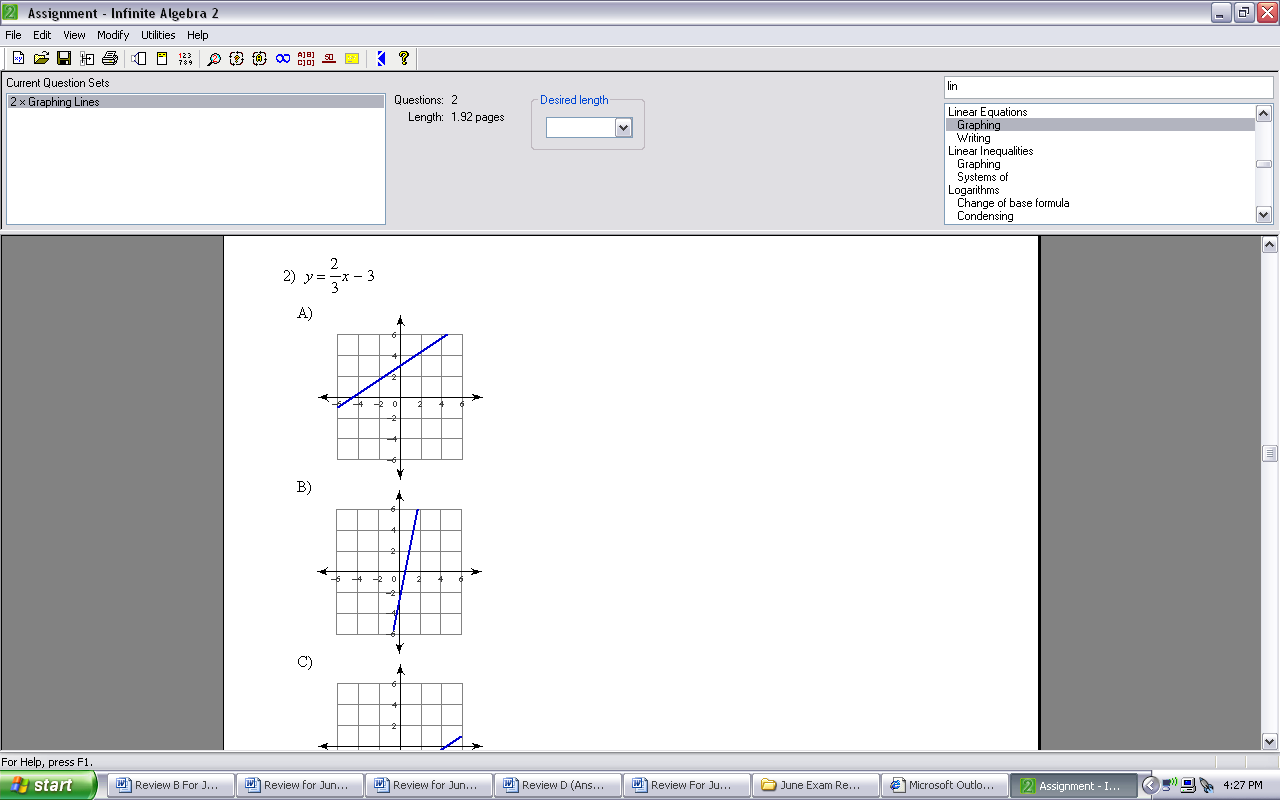
a) y = 2x + 3 b) 2y = x + 3 c) y = 3x + 2 d) y = 3x – 2

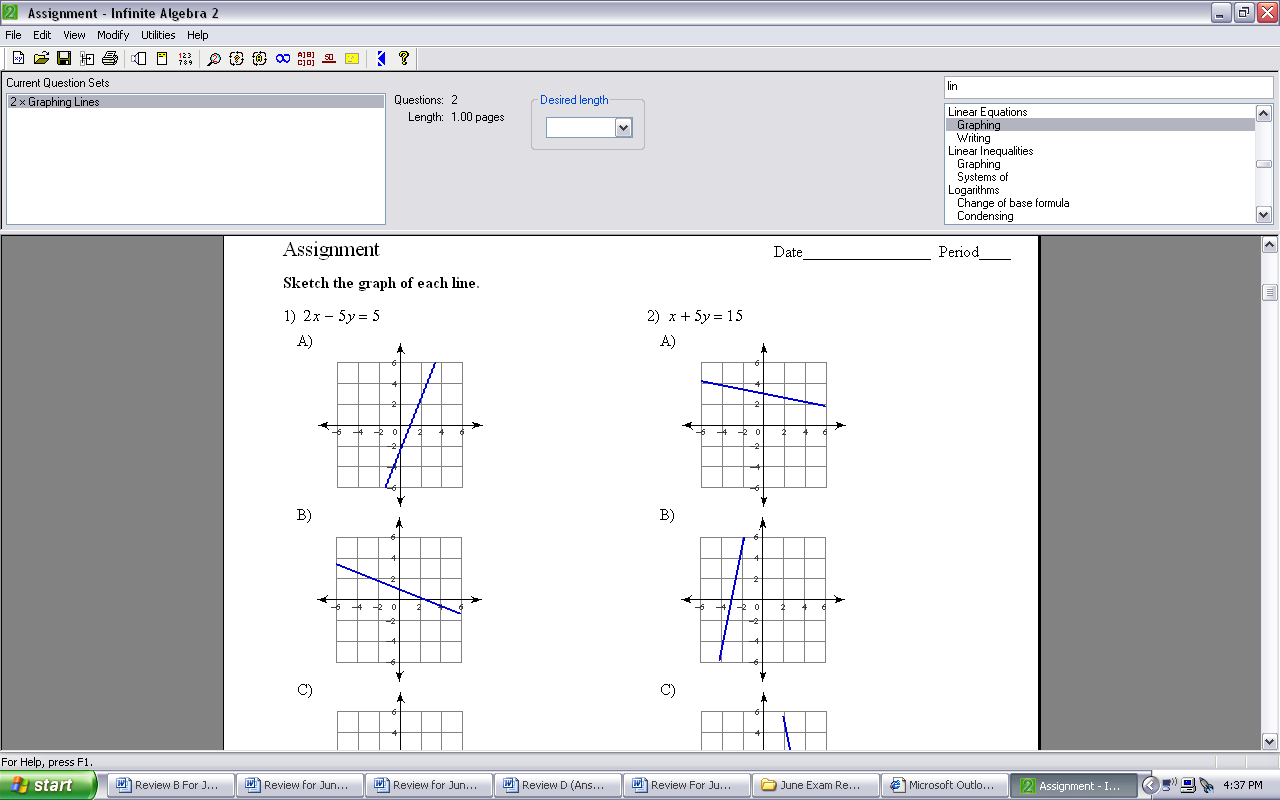
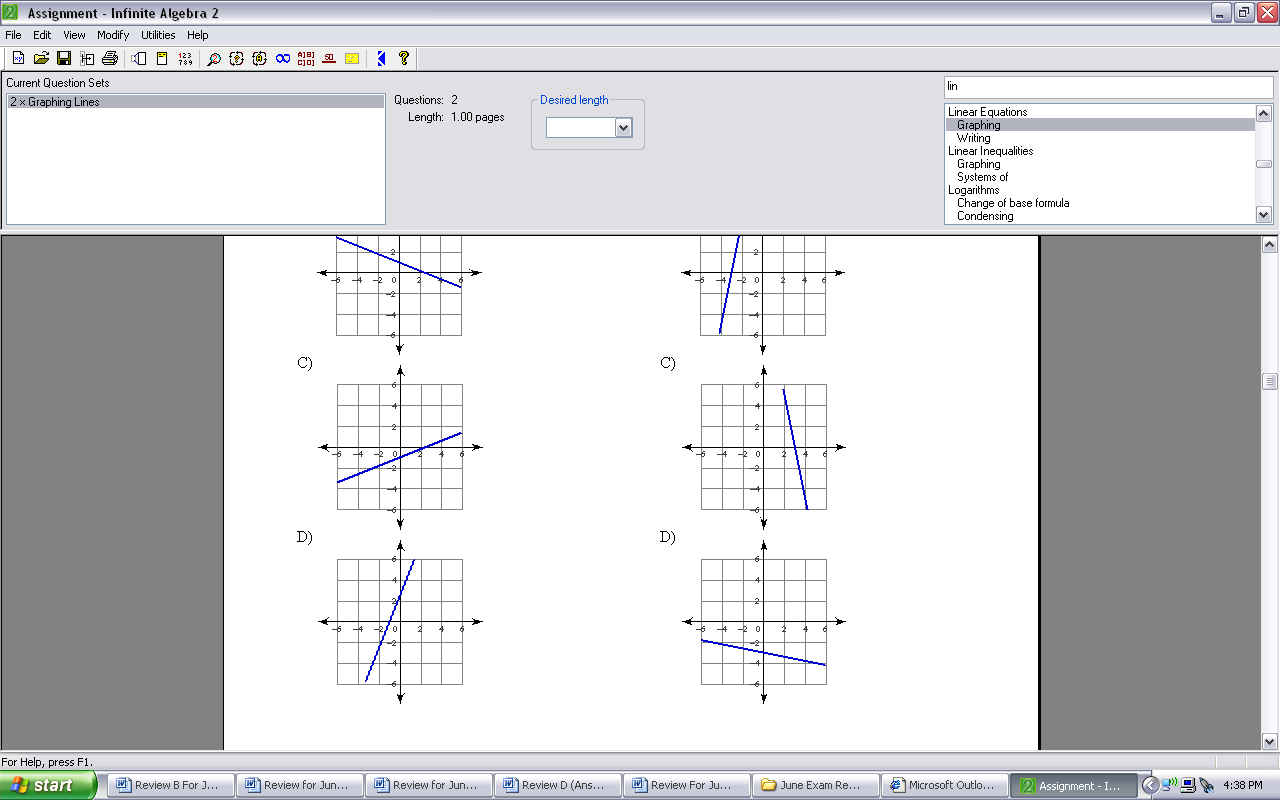
1. Which equation represents the following relation? 

a) y =  b) y = 4x + 3 c) y = 3x d) y = 

1. Plot each point on a Cartesian coordinate system. Which points are on the x axis? **Circle multiple answers.**

a) (-2,0) b) (0,0) c) (0,-3) d) (5,0) e) (-4,-3)

1. Graph y = 
2. Graph 2x – 5y = 5

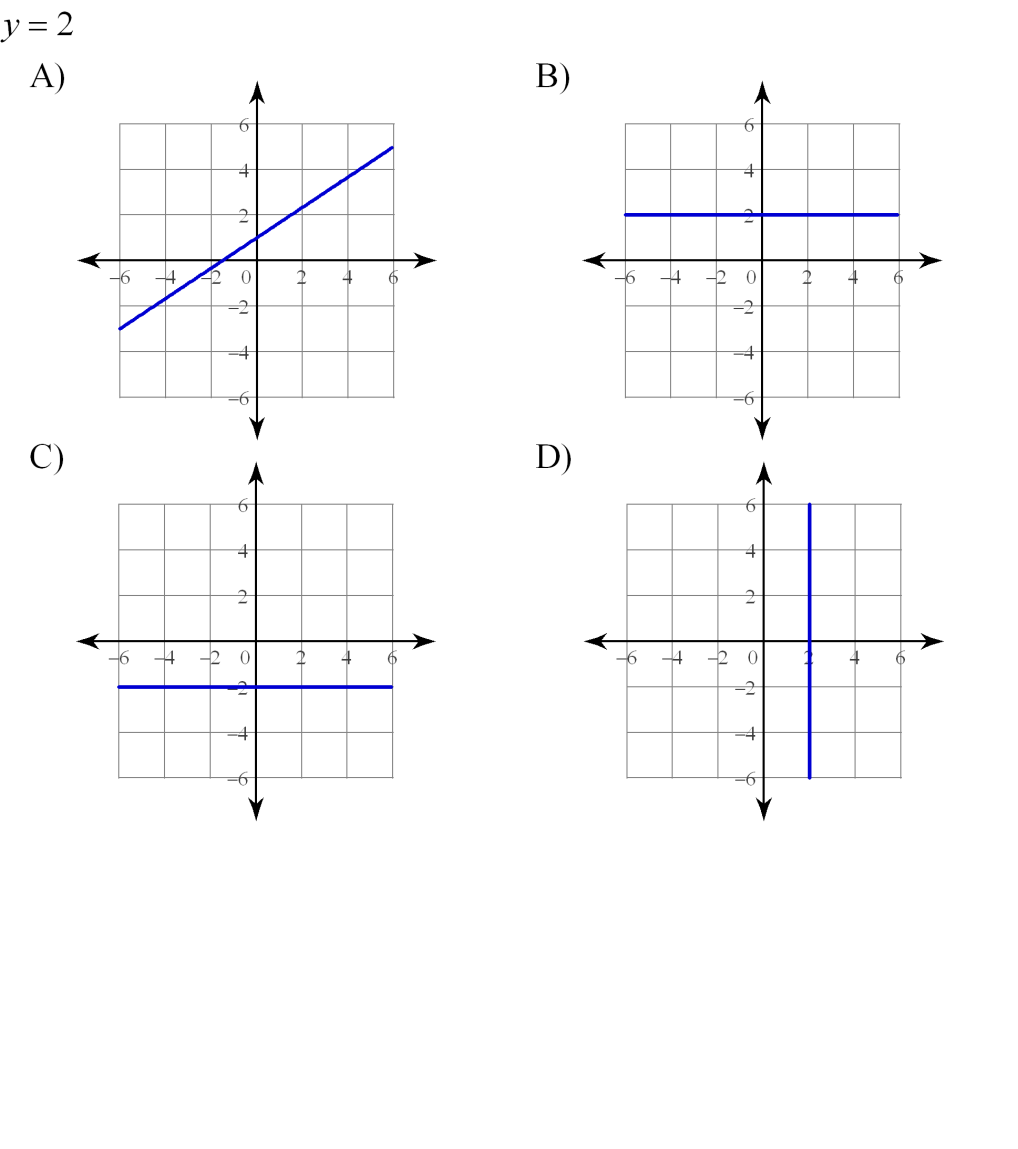


1. **True or False.** The point (-3,10) lies on the line y= -4x +2.
2. Which choice best describes the line defined by the equation y = -4x + 2?

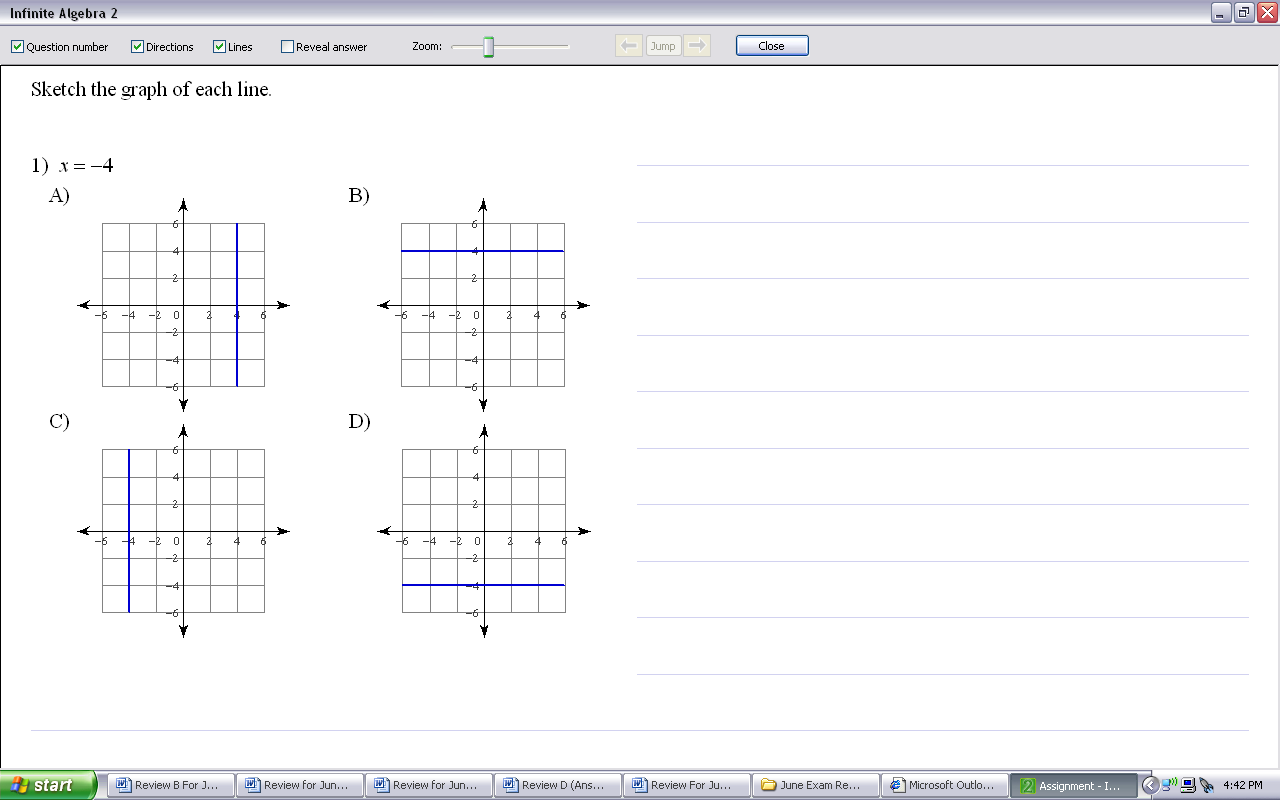
(*Hint*: graph the line first.)

a) rising to the right b) falling to the right c) horizontal d) vertical

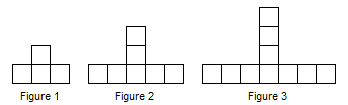
1. Which of the following lines is represented by the equation x=2?



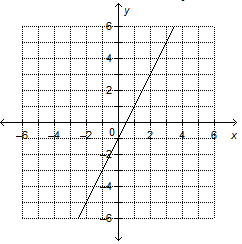
1. Choose the graph for the line with equation y=-4.



1. This pattern of unit squares continues. Which equation below relates the number of squares, *n*, to the figure number, *f*?



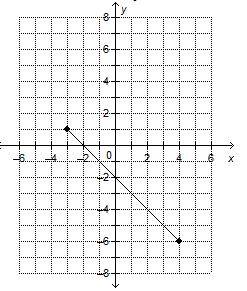
1. n = 3f + 4 b) n = 3f + 1 c) f = 3n + 1 d) f = 4 + 3n
2. The cost to rent a piece of equipment is $24, plus $8.27 per hour. Calculate the cost of renting the equipment for 6 h.
3. $1190.88 b) $73.62 c) $193.62 d) $38.27
4. This graph represents a linear relation. Determine the value of x when y = -2.



1. -1 b) -0.5

c) 0.5 d) -1.5

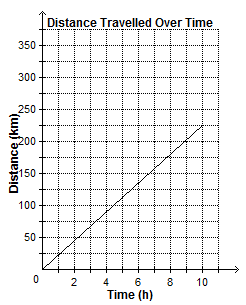
1. This graph represents a linear relation. Determine the value of y when x = -5.



1. 7 b) 3

c) 1 d) 2

1. A car travels at a constant speed. The graph shows how the distance of the car changes with time. Estimate the time it takes to travel 270km.



1. 1 h b) 12 h

c) 11 h d) 13 h